

1 Claims

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3 1. A structural rib for a wall construction
4 assembly, comprising a stiffening web and first and
5 second flanges at each end of the web, the first and
6 second flanges being attachable to respective wall
7 panels, the structural rib further comprising a
8 supporting fin extending from the web portion in a
9 substantially lateral direction thereto.

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11 2. A structural rib as claimed in Claim 1 which
12 has a second mounting fin extending from the web in
13 a direction opposite to that of the first fin.

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15 3. A structural rib as claimed in Claim 3 wherein
16 the first and second fins are co-planar and extend
17 from the web to form an angle of 90° with the web.

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19 4. A structural rib as claimed in Claim 3 wherein
20 the structural component has a plurality of first
21 and second fins extending from the web, each pair of
22 first and second fins being co-planar and extending
23 from opposite sides of the portion.

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25 5. A structural rib as claimed in any of Claims
26 2 to 4 wherein the free end of the first and/or
27 second fins is adapted for complementary engagement
28 with cladding accessories.

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30 6. A structural rib as claimed in Claim 5 wherein
31 the cladding accessories comprise insulation
32 restraining straps, bars or panels.

1 7. A structural rib as claimed in Claim 5 or 6
2 wherein the free end of the first and/or second fins
3 has a slot for receiving the cladding accessories.
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5 8. A structural rib as claimed in Claim 7 wherein
6 the slot is adapted to resist withdrawal of the
7 cladding accessory after its insertion therein.
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9 9. A structural rib as claimed in any of Claims 1
10 to 8 wherein the first and second flanges of the
11 structural component have slots in opposite sides
12 thereof for receiving cladding accessories.
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14 10. A structural rib as claimed in any of Claims 1
15 to 9 wherein an end wall of the first and/or second
16 flange portions of the structural component are
17 grooved to receive adhesive to secure the first
18 and/or second flange portions to the respective wall
19 panels.
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21 11. A structural rib as claimed in any of Claims 1
22 to 10 further comprising attachment means for
23 attaching the structural rib to a wall or cladding
24 panel.
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26 12. A wall construction assembly, comprising a
27 plurality of spaced structural components, each
28 structural component comprising an elongate web,
29 first and second mounting flanges at each end of the
30 web, and one or more pairs of opposed first and
31 second supporting fins extending from the web in a
32 substantially lateral direction thereto, the

1 assembly further comprising at least one wall panel
2 connected to one of the first and second flanges and
3 insulation supported between adjacent structural
4 ribs.

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6 13. A wall construction assembly as claimed in
7 Claim 12 wherein the assembly further comprises an
8 insulation layer attached to the other of the first
9 and second flanges.

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11 14. A wall construction assembly as claimed in
12 Claim 13 further comprising a cladding rail between
13 the insulation layer and the rib.

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15 15. A wall construction assembly as claimed in
16 Claim 14 has a cladding panel connected to spacing
17 block between structural rib and cladding panel.

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19 16. A wall construction assembly as claimed in any
20 of Claims 12 to 15 further comprising insulation
21 disposed between the first and second fins of the
22 structural component, and the first and/or second
23 wall panel, the insulation extending between
24 adjacent structural components.

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26 17. A wall construction assembly as claimed in
27 Claim 16 wherein the first and second flange
28 portions of the structural component have slots in
29 opposite sides thereof for receiving cladding
30 accessories.

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1 18. A wall construction assembly as claimed in
2 Claim 17 wherein the free end of the first and/or
3 second fins is adapted for complementary engagement
4 with cladding accessories, for example, insulation
5 restraining straps, bars or panels.

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7 19. A wall construction assembly as claimed in
8 Claim 18 wherein the free end of the first and/or
9 second fins has a slot for receiving the cladding
10 accessory.

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12 20. A wall construction assembly comprising a
13 structural rib as claimed in any of Claims 1 to 11.